Course Syllabus

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CHBE 602

Spring 2018

Physico-chemical Hydrodynamics

Schedule: TR 10:50 – 12:05 BRC 286

I. Course Objective

To introduce and develop the fundamentals and methods to solve problems involving diffusive and convective transport of heat and mass. We will address problems involving both steady-state and transient diffusion/conduction, as well as heat and mass transfer with chemical reaction or phase changes.

II. Teaching Staff

Instructor: Fred MacKintosh, Professor, Chemical and Biomolecular Engineering.
Office located in BRC room 1000.
Email: fcmack@rice.edu

Office Hours: after class on Thursdays and by appointment.

III. Textbook and Resources

The following textbook (available through the campus bookstore) is required:

Deen, W. M. *Analysis of Transport Phenomena*. Oxford University Press, New York: 1998. 2nd Edition.

IV. Grading

Grading will be determined by a combination of homework assignments (30 %), two midterm exams (40 %), and a final exam (30 %).

Homework turned in late will be penalized 50%. After solutions are poseted, late homework will no longer be accepted.